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(54) CLOTHES TREATING APPARATUS HAVING DRYING FUNCTION

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This patent is subject to a terminal dis-

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See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

2,776,826 A * 1/1957 Bennett D06F 58/02 34/82

3,325,908 A 6/1967 Gartley (Continued)

FOREIGN PATENT DOCUMENTS

CN 101575796 A 11/2009 CN 201648799 U 11/2010 (Continued)

OTHER PUBLICATIONS

Combined Search and Examination Report dated Apr. 30, 2013 from GB Application No. 1300591.3, in English, 5 pages.

(Continued)

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(57) ABSTRACT

A clothes treating apparatus having a drying function comprises a cabinet to receive a rotatable drum therein, the cabinet defining an appearance of the apparatus, a module part mounted onto an outer surface of the cabinet, the module part comprising a heater assembly, a blower assembly, and a housing for accommodating the heater assembly and the blower assembly, and a link unit to connect the module part onto the rear side of the cabinet, wherein the heater assembly includes a heater module as an air heating device, a thermostat installed at a position adjacent to an outlet side of the heater module to turn the heater module on or off according to air temperature, and a slit formed between the thermostat and the heater module to allow for introduction of external air.

12 Claims, 19 Drawing Sheets

